

## **STUDY OF BIOGENIC STIMULATORS BASED ON ALOE VERA**

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The mankind has been worried about the maintenance of health and vital body functions for centuries. Biogenic stimulators mean biologically active substances produced in isolated animals and plant tissues in the process of adaptation to unfavorable conditions (cooling, being in the dark). In case of being administered in the body, they have a stimulating effect on the metabolism and regeneration processes. The chemical nature of biogenic stimulators has been sufficiently studied. As a rule, they represent a complex combination of substances. The qualitative and quantitative composition of biogenic stimulators in tissue preparations is unstable and partly depends on the specification of metabolism of the tissue itself. Dicarboxylic hydroxy acids of aliphatic series, aromatic acids of high molecular weight, vitamins, and minerals are the most biologically active. Their biological activity is evaluated according to their ability to enhance regenerative and metabolic processes in the body.

The mechanism of the effect of biogenic stimulators on the body is to change the activity of a range of enzymes, which in their turn leads to endocrine restructuring: secretion of hormones in the main endocrine glands in the body - in the pituitary gland is being increased. Pituitary hormones stimulate the production of other hormones: sex, thyroid hormones, adrenal glands, and so on, which contributes to enhance the metabolic processes in the body. It is known that aloe preparations contain biogenic stimulators.

Aloe preparations have anti-microbial, anti-inflammatory, and wound-healing properties. They improve appetite, enhance the secretion of digestive glands and bile secretion, they are mild laxatives, increase the protective properties of the body, and stimulate the regenerative processes in the damaged tissues. Aloe latex, extracted from fresh leaves, is used externally for the treatment of purulent wounds, burns, osteomyelitis, trophic ulcers, for rinsing in case of disease of the nasopharynx and gums. In gynecology fresh aloe is used in the treatment of cervical erosion. Aloe liniment, prepared from aloe leaves is used in the treatment of burns and radiation injuries of the skin. Aloe can also be used orally for improving the body's resistance to infectious diseases. Aloe syrup with iron is taken in case of diseases of the gastrointestinal tract, iron deficiency anemia, after infectious and other debilitating diseases and intoxications.